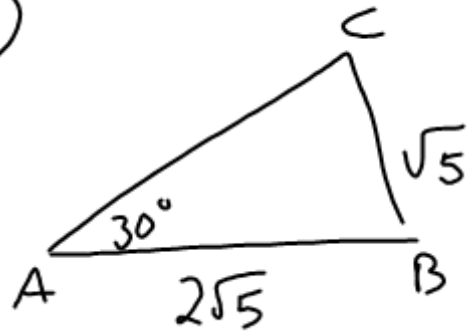


31



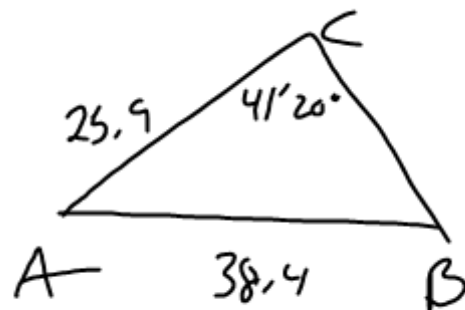
$$\frac{\sin 30^\circ}{\sqrt{5}} = \frac{\sin C}{2\sqrt{5}} \cdot \cancel{2\sqrt{5}}$$

$$\sin C = \cancel{2\sqrt{5}} \cdot \left(\frac{\frac{1}{2}}{\cancel{\sqrt{5}}} \right)$$

$$\sin C = 1$$

$$C = 90^\circ$$

(15)



$$\cancel{25.9} \cdot \frac{\sin B}{\cancel{25.9}} = \frac{\sin 41^\circ 20'}{38.4}$$

$$A = 180 - 41^\circ 20' - 26.5$$

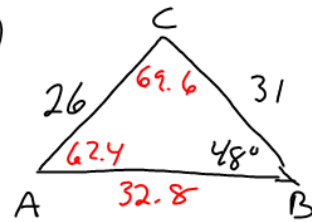
$$\underline{\underline{A = 112.2^\circ}}$$

$$\sin B = 25.9 \cdot \frac{\sin 41^\circ 20'}{38.4}$$

$$B = \sin^{-1} \left(25.9 \cdot \frac{\sin 41^\circ 20'}{38.4} \right)$$

$$\underline{\underline{B = 26.5^\circ}}$$

⑦



$$\frac{\sin 48}{26} = \frac{\sin A}{31}$$

$$\sin A = 31 \left(\frac{\sin 48}{26} \right)$$

$$A = \sin^{-1} \left(31 \cdot \frac{\sin 48}{26} \right)$$

$$A = 62.4 \text{ or } \underline{117.6} \quad 180 - 62.4$$



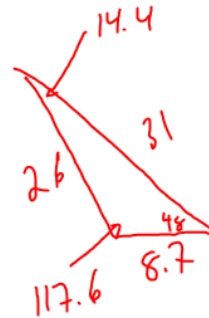
$$\frac{\sin 69.6}{c} = \frac{\sin 48}{26}$$

$$c = \frac{\sin 69.6}{\left(\frac{\sin 48}{26} \right)}$$

$$\underline{c = 32.8}$$

$$180 - 48 - 62.4 = 69.6$$

$$\begin{array}{ccccccc} \text{deg} & & & & & & \\ \Delta & & \uparrow & \uparrow & \uparrow & & \\ 180 & - & 48 & - & 117.6 & = & 14.4 \\ & & \downarrow & & \downarrow & & \\ & & \text{given} & & \text{found} & & \text{3rd} \\ & & & & A & & \end{array}$$



$$\frac{\sin 14.4}{c} = \frac{\sin 48}{26}$$

$$c = \frac{\sin 14.4}{\frac{\sin 48}{26}}$$

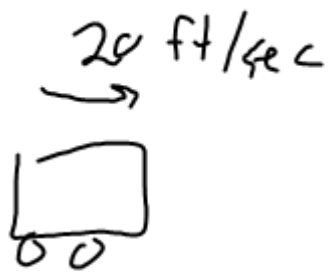
$$c = 8.7$$

HW

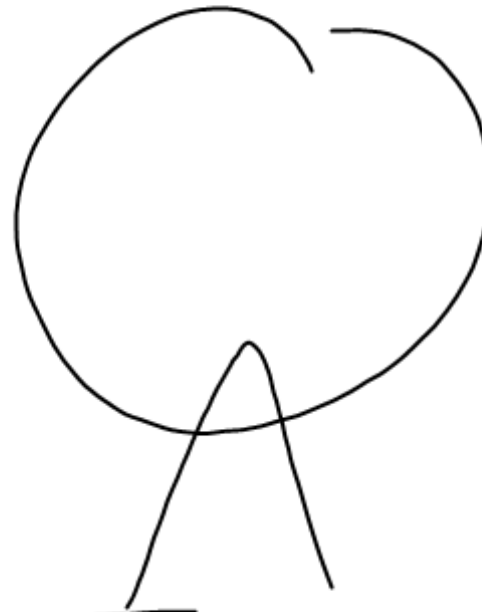
- Sect. 7.2 #5-23 (the rest)
- write up for horz./vert position

Due Mon.

- drop time as a function of x
- cart's position as a function of x



-250



$$y = 20x - 250$$

↓
wait
time